

CLAIMS

We claim:

- 1 1. In a digitizer pen, a pressure sensor, comprising:
2 a first sensor section having a non-carbon ink disposed thereon; and
3 a second sensor section having a non-carbon ink disposed thereon, the second sensor
4 section abutting the first sensor section.

- 1 2. The pressure sensor of claim 1 in which at least one of the first sensor section and the
2 second sensor section has a resistive, non-carbon ink disposed thereupon.

- 1 3. The pressure sensor of claim 2 in which at least one of the first sensor section and the
2 second sensor section is circular having a center and has a plurality of traces of the non-carbon ink
3 disposed thereon in a pattern symmetrical about the center of the sensor section.

- 1 4. The pressure sensor of claim 1 in which at least one of the first sensor section and the
2 second sensor section is circular having a center and has a plurality of traces of the non-carbon ink
3 disposed thereon in a pattern symmetrical about the center of the sensor section.

- 1 5. The pressure sensor of claim 4 in which at least one of the first sensor section and the
2 second sensor section has a resistive, non-carbon ink disposed thereupon.

1 6. A pressure sensor for a digitizer pen, comprising:
2 a first sensor section having a conductive, non-carbon ink disposed thereon; and
3 a second sensor section having a resistive, non-carbon ink disposed thereon, the second
4 sensor section abutting the first member, and in which the resistive, non-carbon ink includes
5 thermoplastic resin,
6 silver,
7 tin oxide, and
8 diethylene glycol monobutyl ether acetate.

1 7. The pressure sensor of claim 6, including an elastomer abutting at least one of the first
2 sensor section and the second sensor section.

1 8. A digitizer pen, comprising:
2 a pressure sensor mounted within the digitizer pen, the pressure sensor having a center
3 and having output terminals; and
4 a stylus movably mounted to the digitizer pen, the stylus having a writing tip for touching
5 a sensing surface and an end, opposite the writing tip, for applying force to the pressure sensor,
6 such that an electrical conductance between the output terminals is proportional to the force, and
7 such that, the electrical conductance in response to a given amount of force applied by the end of
8 the stylus to the pressure sensor at the center is substantially the same as the electrical
9 conductance in response to the given amount of force applied by the end of the stylus to the
10 pressure sensor off-centered.

1 9. The digitizer pen of claim 8 including a tip holder movably mounted to the digitizer pen,
2 and in which the stylus is removably mounted to the tip holder, such that the electrical
3 conductance in response to a given amount of force applied by tip holder to the pressure sensor at
4 the center is substantially the same as the electrical conductance in response to the given amount
5 of force applied by the tip holder to the pressure sensor off-centered.

1 10. The digitizer pen of claim 9, in which the pressure sensor has a start-up pressure, such
2 that the start-up pressure is determined in part by the shape of a face of the tip holder.

1 11. The digitizer pen of claim 8, in which the pressure sensor includes
2 a circular first sensor section; and
3 a circular second sensor section abutting the circular first sensor section, and in which at
4 least one of the circular first sensor section and the circular second sensor section has a plurality
5 of traces of a non-carbon ink disposed thereon in a pattern symmetrical about the center of the
6 sensor section.

1 12. The digitizer pen of claim 11, in which at least one of the circular first sensor section and
2 the circular second sensor section has a resistive, non-carbon ink disposed thereupon.

1 13. The digitizer pen of claim 10, in which the pressure sensor includes
2 a first sensor section having a conductive, non-carbon ink disposed thereon; and
3 a second sensor section having a resistive, non-carbon ink disposed thereon.

1 14. The digitizer pen of claim 13, in which at least one of the first sensor section and the
2 second sensor section is circular, and in which at least one of the first sensor section and the
3 second sensor section has a plurality of traces of a non-carbon ink disposed thereon in a pattern
4 symmetrical about the center of the sensor section.

1 15. A pressure sensor in a digitizer pen, the digitizer pen including a stylus for applying force
2 to the pressure sensor, the pressure sensor comprising:

3 at least one circular sensor section having a plurality of traces of a non-carbon ink
4 disposed thereon in a pattern symmetrical about the center of the sensor section; and

5 two output terminals, such that an electrical conductance between the two output
6 terminals is responsive to force applied by the stylus on the pressure sensor, and such that a
7 change in electrical conductance between the two output terminals in response to a change in
8 force applied by the stylus to the pressure sensor is selectable by preselecting one or both of the
9 shape of the traces and the size of the traces.